



COMM AVE BRIDGE



REPLACEMENT PROJECT

massDOT
Massachusetts Department of Transportation

Community Meeting

June 2, 2016

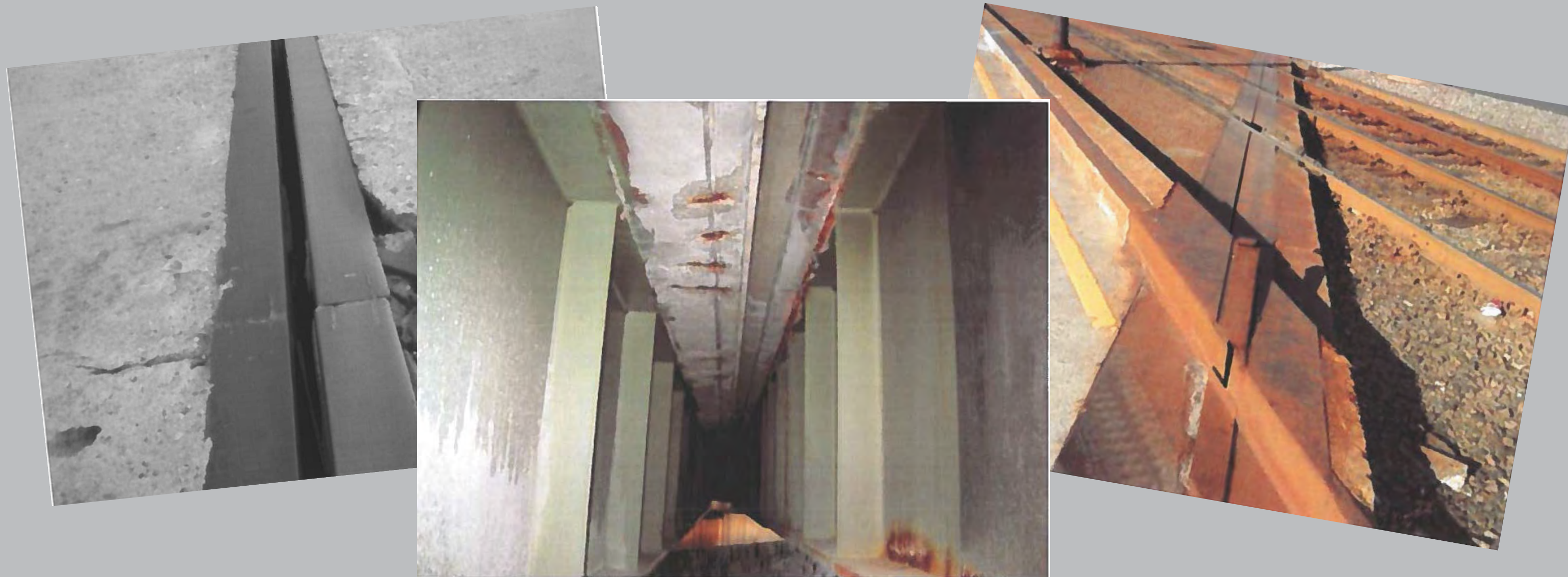
- Introductions
- Project Purpose
- Project Description
- Impacts
- Detours and Schedule
- Communication
- Next Steps

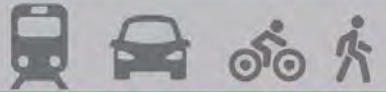


Need for Replacement

Constructed in 1965, the bridge superstructure – the concrete deck and steel beams -- is in poor condition:

- The deck has deteriorated
- Beams in numerous locations are corroded





About this Project

- Replaces the deck and steel beams (superstructure)
- 3 independent elements: Comm Ave (heading east), MBTA Green “B” Line, Comm Ave (heading west)



Accelerated Bridge Construction

- Conventional replacement would take an estimated 4-5 years
- ABC reduces overall construction duration:
 - 2 intensive construction windows: Summer 2017 (18½ days) & Summer 2018 (15½ days)
 - Utility relocation in the interim year
- During construction, MassDOT will maintain bus service and access for emergency vehicles, pedestrians and bicycles (Comm Ave)
- ABC used successfully across MA, including 93 Fast 14 and the Burns Bridge

Why Summer?

- Lower traffic and ridership volumes – vacation season
- Boston University (BU) activity reduced
- Less impact on local sports and special events



Keeping Massachusetts Moving

- Minimize traffic volume as much as possible in the area
 - Reduce – seasonal reduction; public outreach
 - Reroute – seek alternate routes
 - Reschedule – encourage altering work schedule/commuting times
 - Re-mode – shift to public transportation and bicycles
 - Remote – work from home
- Provide messaging and detour information



Walsh Design Build Team

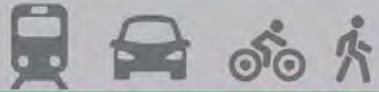
Contractor

Walsh Construction Company

Design Team

- HDR – Lead
- City Point Partners, LLC
- Fort Hill Infrastructure Services, LLC
- Kleinfelder, Inc.
- KM Chng Environmental, Inc.
- LTK Engineering Services
- McMahon Associates Inc.
- Nitsch Engineering, Inc.
- Regina Villa Associates, Inc.
- RM Engineering, Inc.





Walsh Design Build Team

- The Design Build Contract was awarded to Walsh Construction on May 22, 2015
- MassDOT provided a 25% base technical concept
- Team has progressed design to 75% plus through discussions with pertinent stake holders
- Design should be complete within a few months



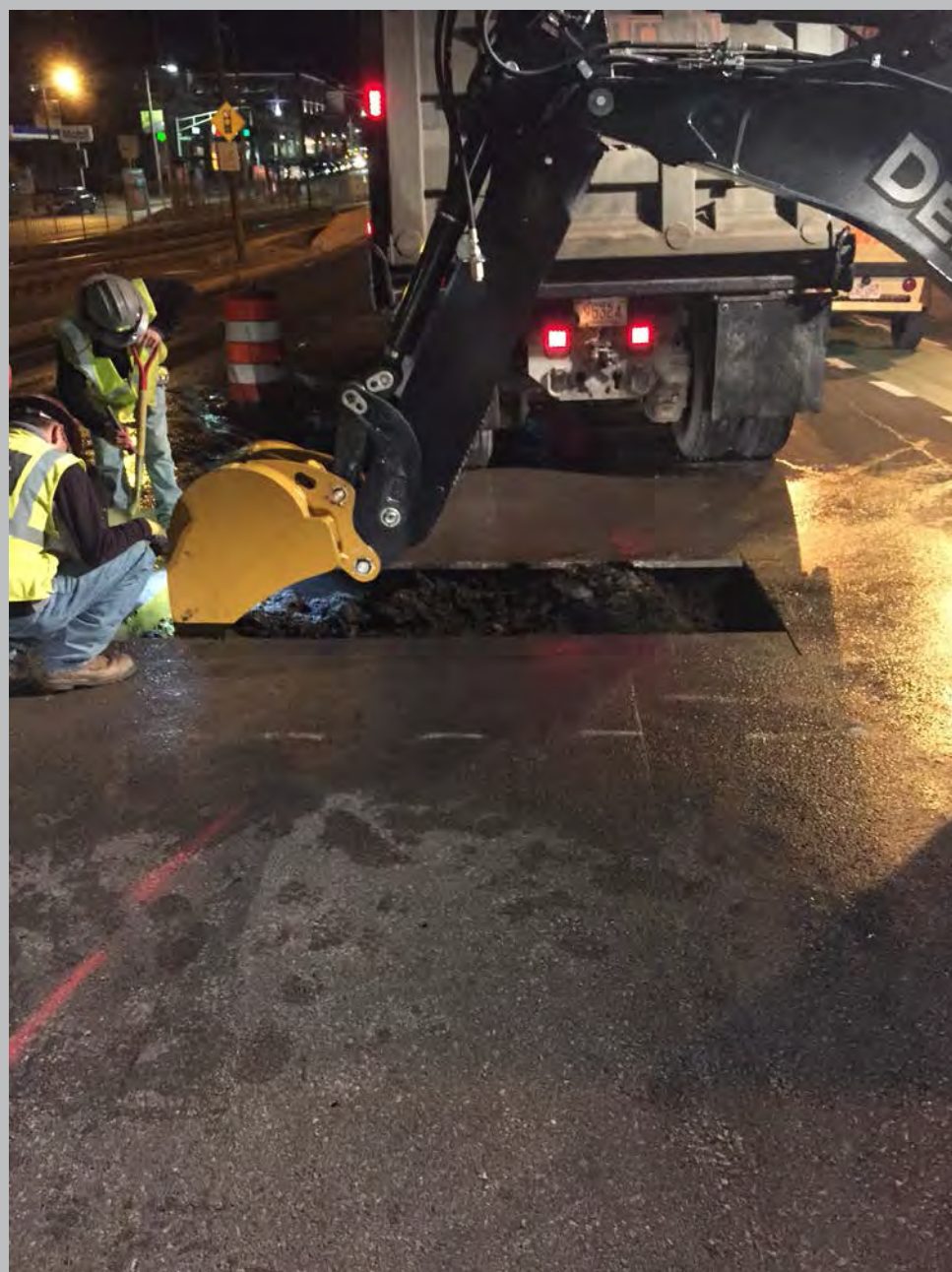
Design Development

- Cycle track/bike accommodations
- Addition of separate bike signals
- Refinements in accessibility/pedestrian accommodations
- Refined landscaping and lighting elements
- Improved signal communications and coordination (interconnect and cameras)
- Inclusion of floating bus island/sidewalk improvements
- Enhanced traffic management in work zones to improve pedestrian, bike and transit access during shutdowns

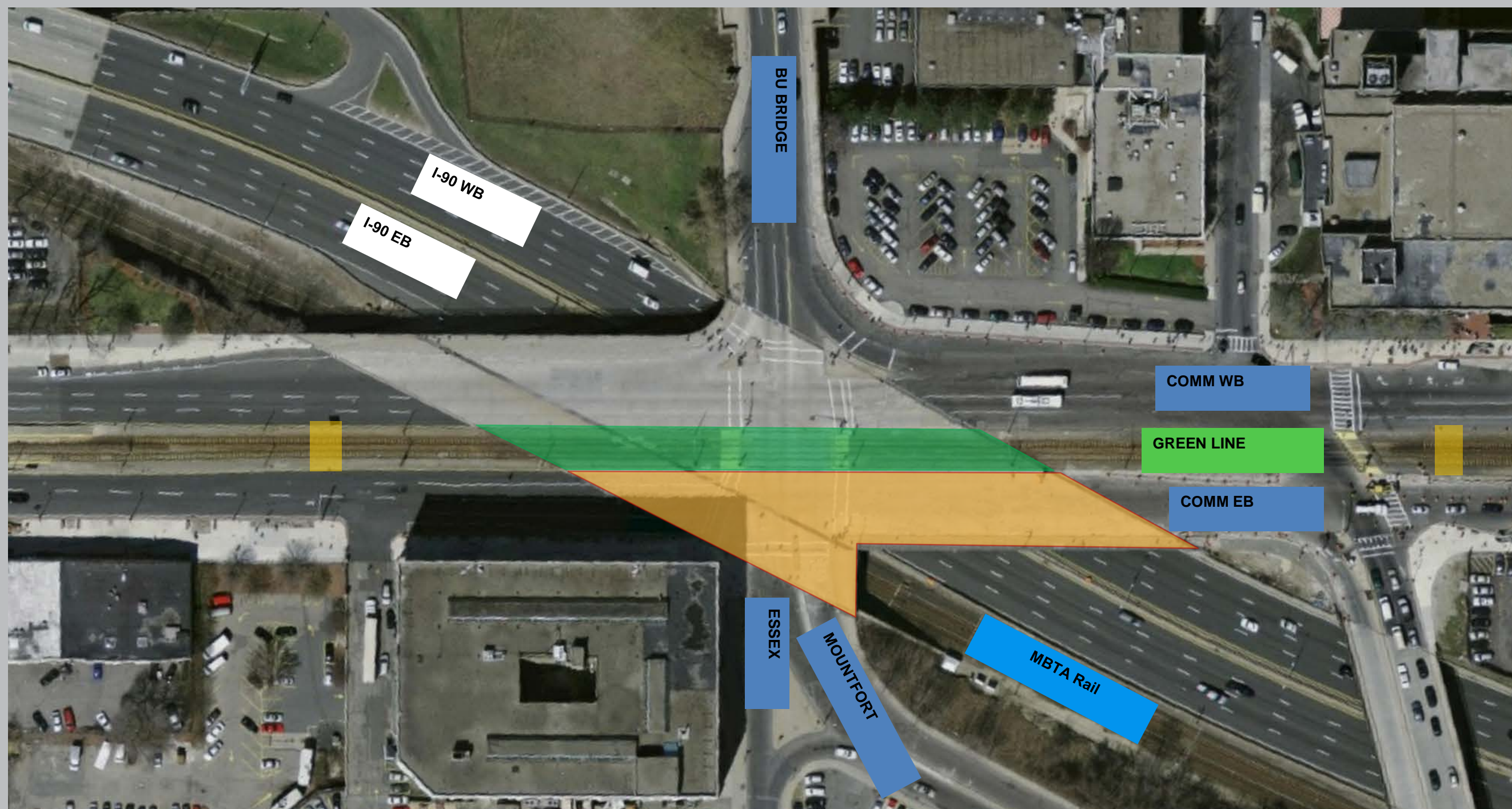
Construction Sequence: Stage 1

Enabling Work and Roadway Prep

June 2016 – Shutdown 2017

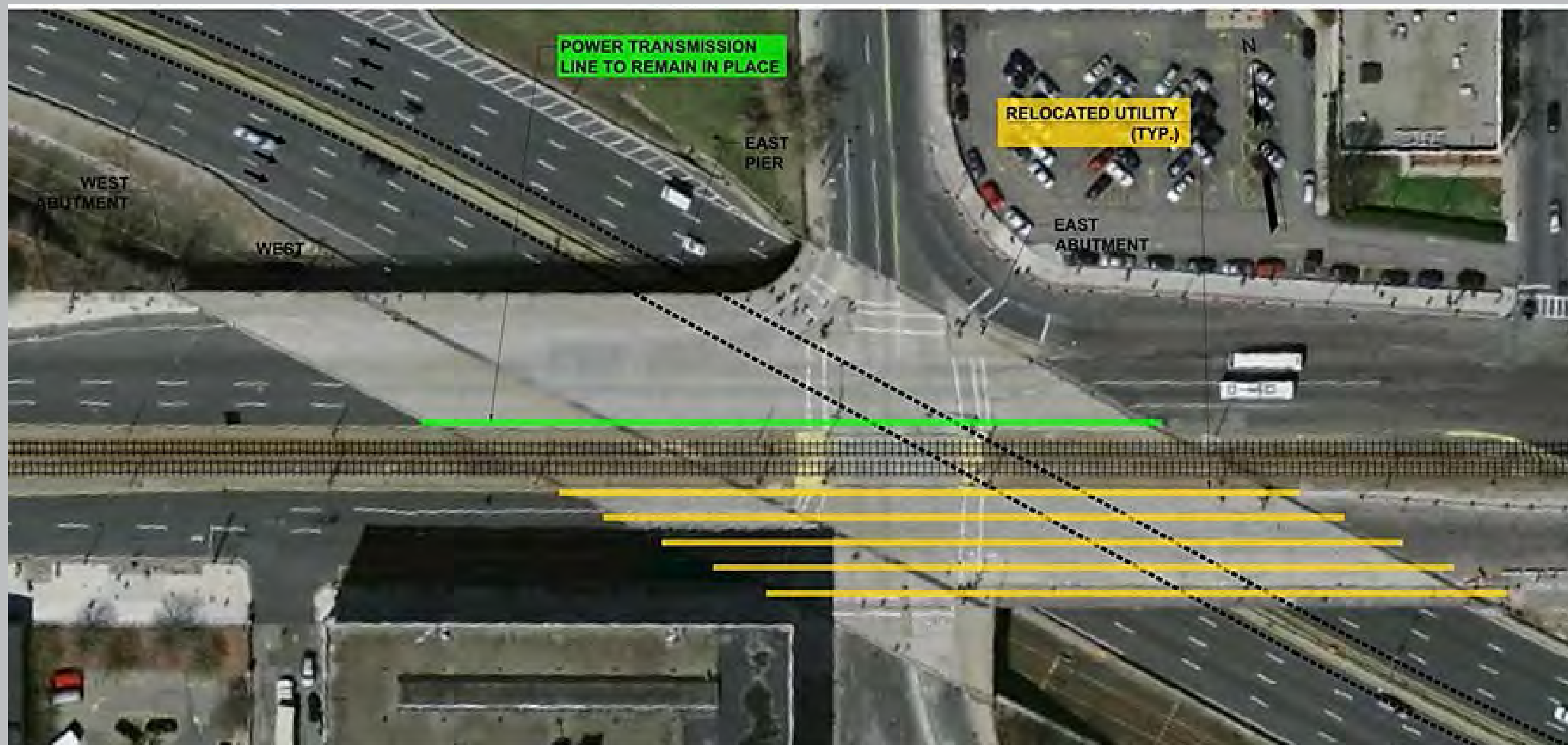


Construction Sequence: Stage 2



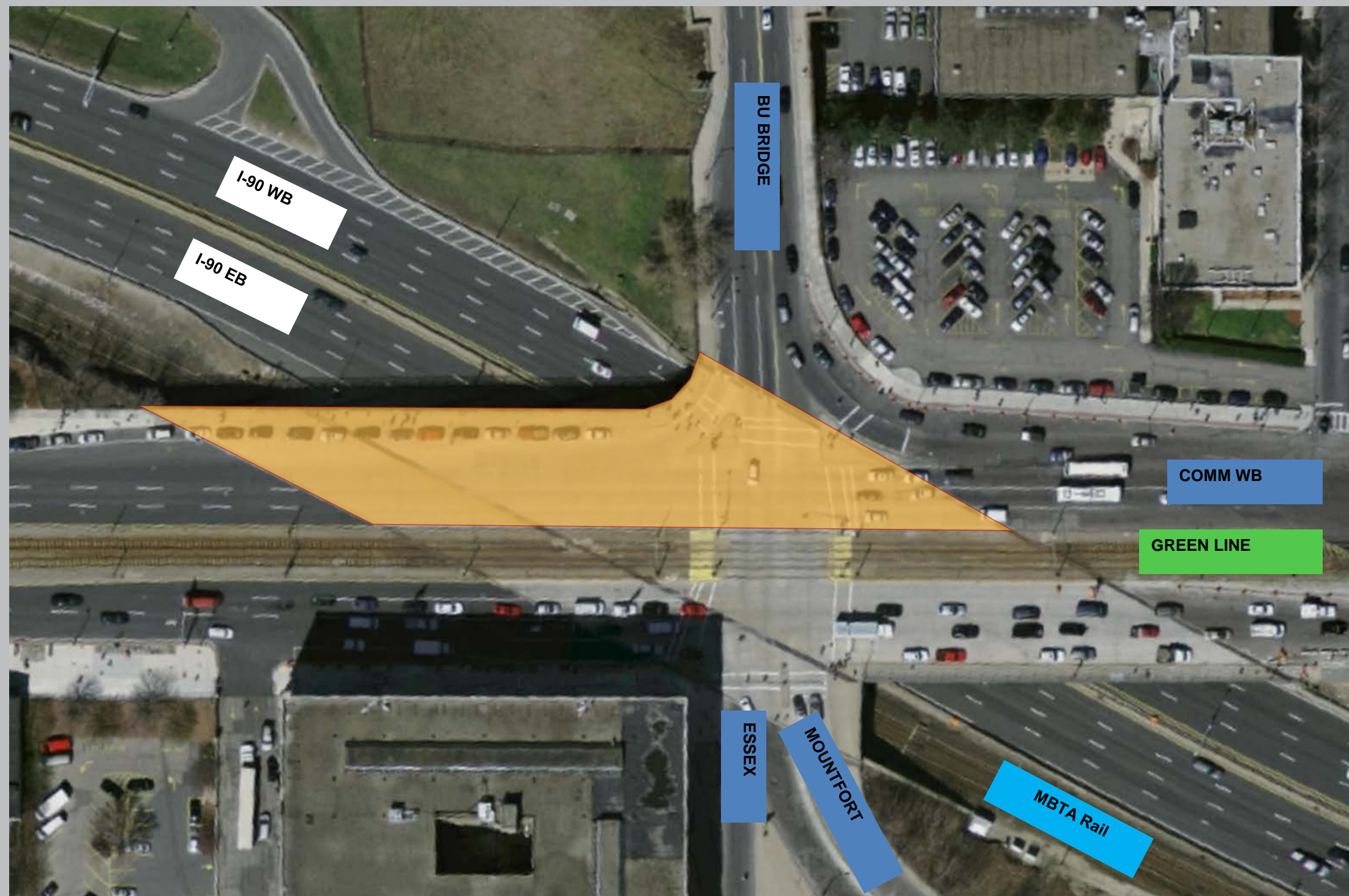
Comm Ave EB and MBTA Green Line Portions
July/August 2017

Construction Sequence: Stage 3



Utility Relocation and Roadway/Traffic Signal Work
September 2017 – Shutdown 2018

Construction Sequence: Stage 4



Comm Ave WB Portion & Utility Work
July/August 2018

Construction Sequence: Stage 5

I-90 Re-Paving, I-90 Median Reconstruction, Finish Work
August 2018 - Mid 2019



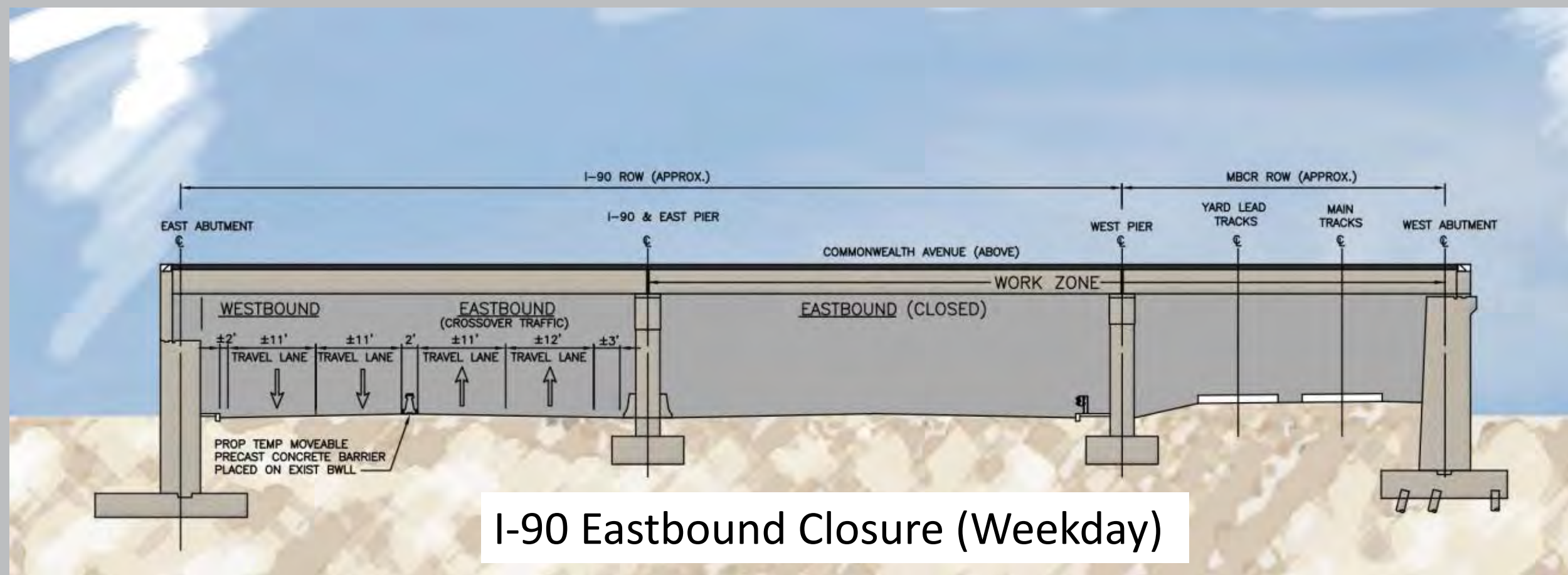
Temporary Traffic Control Schedule

Facility	Temporary Impact/Anticipated Dates	Notes
MBTA Green “B” Line (Surface)	Closed for 18½ days – July/August 2017 Closed for 15½ days – July/August 2018	Busing provided between Kenmore and Packard’s Corner stations
Commonwealth Avenue (Surface)	Closed for 17½ days – July/August 2017 Closed for 15½ days – July/August 2018	Maintain EMS, Transit, Pedestrian, Bike & Local Access
BU Bridge (Surface)	Closed for 17½ days – July/August 2017 Closed for 15½ days – July/August 2018	During shutdown in 2017, access maintained for buses, EMS, pedestrians and bicycles. During 2018 shutdown, only pedestrian and bike access.
I-90 (Below)	Traffic Shift for 9½ days (2 weekends, plus 1 week in 2017 and 2018)	Open with reduced lanes
MBTA Commuter Rail (Below)	Closed for 2 weekends	Normal service during weekdays

Traffic Management (Closure Period) Interstate 90

Open with reduced lanes

- 2 lanes in each direction open during peak
- 1 lane open off-peak and weekends
- Zipper barrier separation
- I-90 Eastbound on-ramp from Cambridge Street and I-90 Westbound Exit 20 off-ramp will be closed



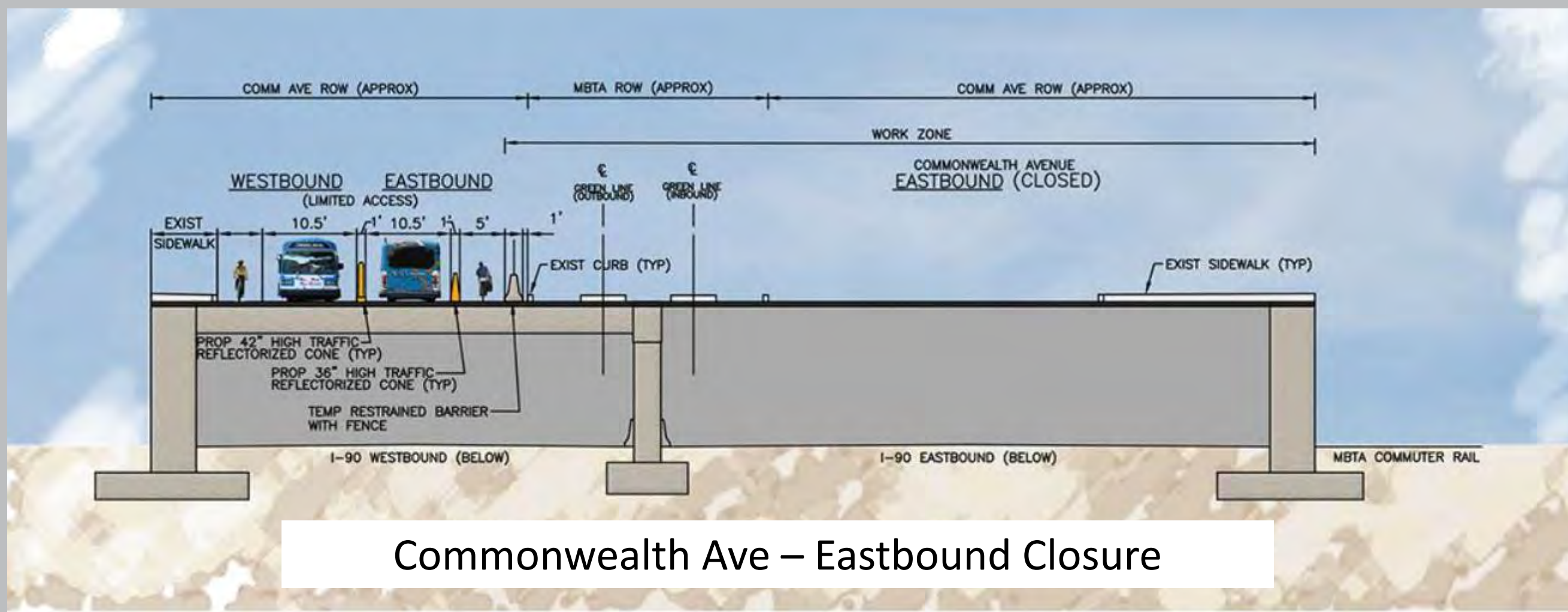
I-90 Eastbound Closure (Weekday)

Example: Traffic Management (EB Closed) - Peak hours (Mon – Wed)

Traffic Management (Closure Period) Commonwealth Ave

Closed from Brighton Avenue to Kenmore Square

- Close entire road to through traffic
- Maintain 2 lanes on the bridge for buses and emergency vehicles
- Maintain access for pedestrians, bicycles and local abutters

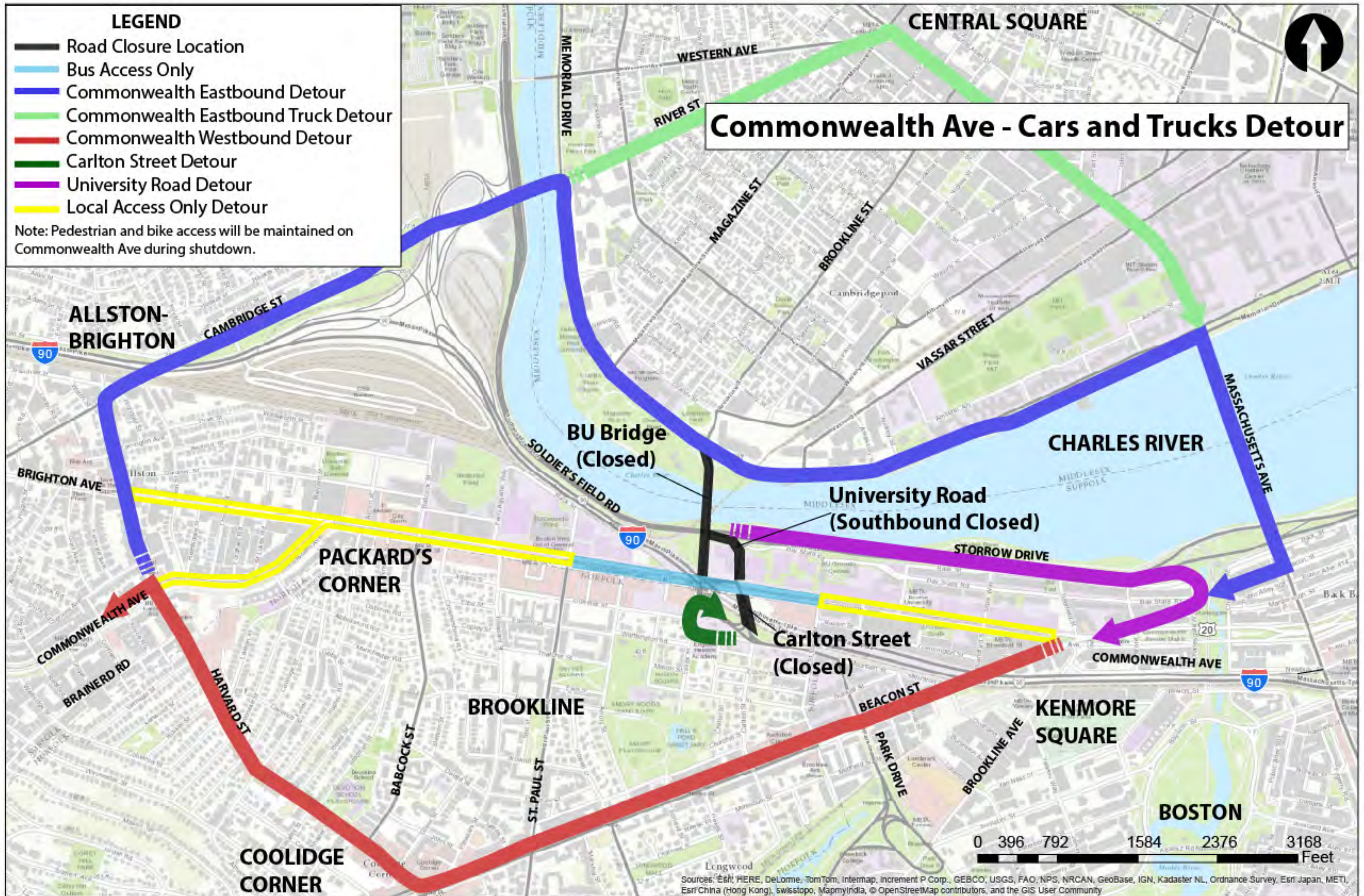


Commonwealth Ave – Eastbound Closure

LEGEND

- Road Closure Location
- Bus Access Only
- Commonwealth Eastbound Detour
- Commonwealth Eastbound Truck Detour
- Commonwealth Westbound Detour
- Carlton Street Detour
- University Road Detour
- Local Access Only Detour

Note: Pedestrian and bike access will be maintained on Commonwealth Ave during shutdown.



Traffic Management (Closure Period) Boston University Bridge

July/August 2017 Closure

- Close entire bridge to vehicular traffic
- Maintain access for two-way transit buses, pedestrians and bicycles

July/August 2018 Closure

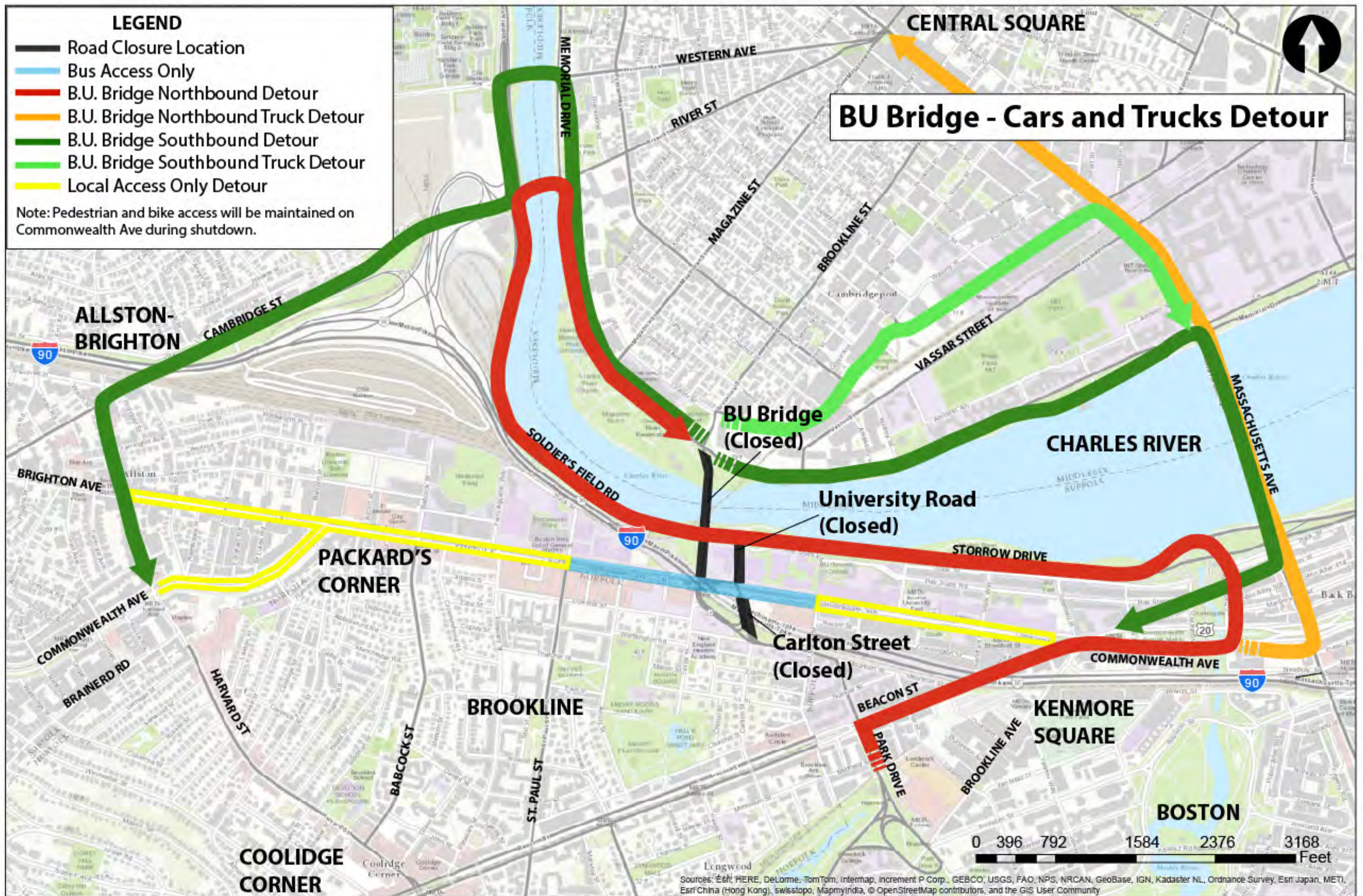
- Closed except for pedestrian and bike access on the east side






LEGEND

- Road Closure Location
- Bus Access Only
- B.U. Bridge Northbound Detour
- B.U. Bridge Northbound Truck Detour
- B.U. Bridge Southbound Detour
- B.U. Bridge Southbound Truck Detour
- Local Access Only Detour

Note: Pedestrian and bike access will be maintained on Commonwealth Ave during shutdown.

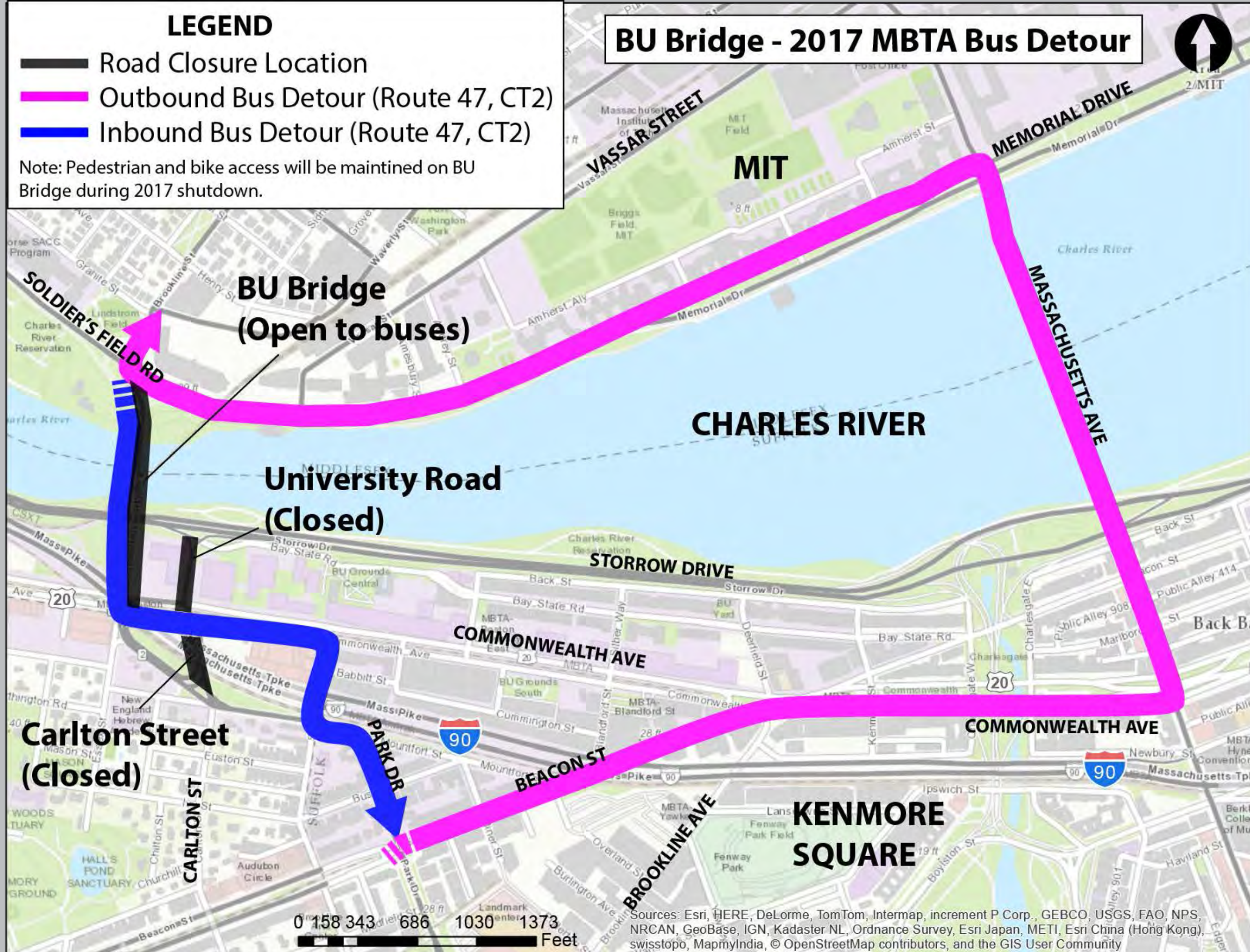


LEGEND

-  Road Closure Location
-  Outbound Bus Detour (Route 47, CT2)
-  Inbound Bus Detour (Route 47, CT2)




Note: Pedestrian and bike access will be maintained on BU Bridge during 2017 shutdown.

BU Bridge - 2017 MBTA Bus Detour



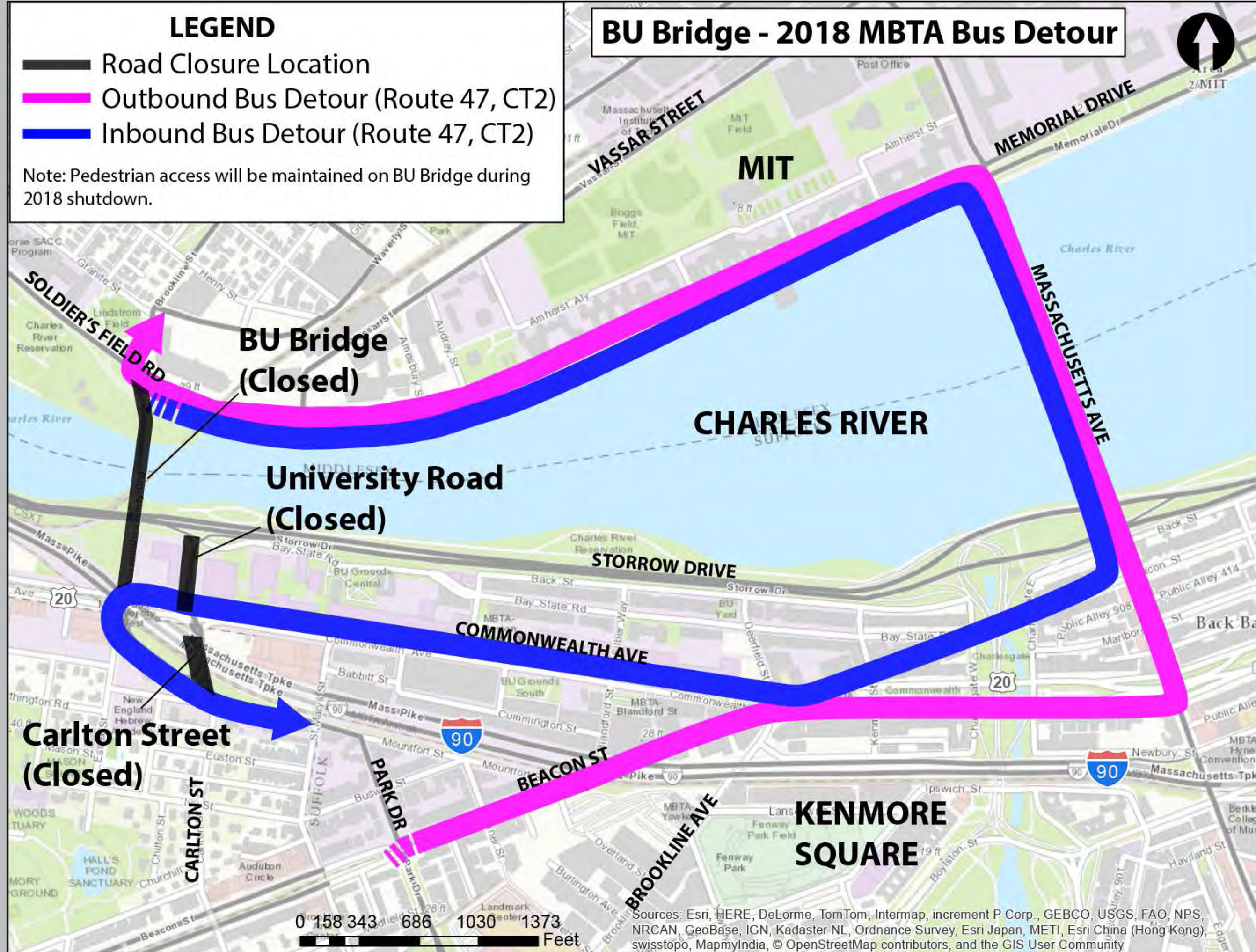
Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

LEGEND

-  Road Closure Location
-  Outbound Bus Detour (Route 47, CT2)
-  Inbound Bus Detour (Route 47, CT2)

Note: Pedestrian access will be maintained on BU Bridge during 2018 shutdown.

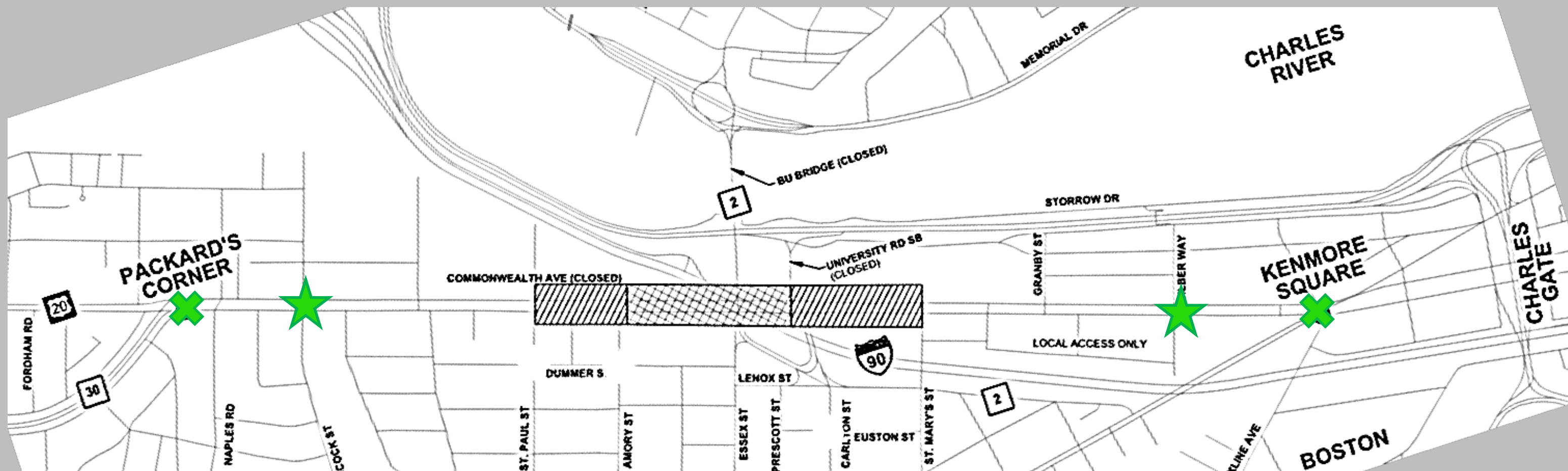
BU Bridge - 2018 MBTA Bus Detour



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Traffic Management (Closure Period) Green Line

Shuttle buses will run between Packard's Corner and Kenmore Square



Traffic Management (Closure Period)

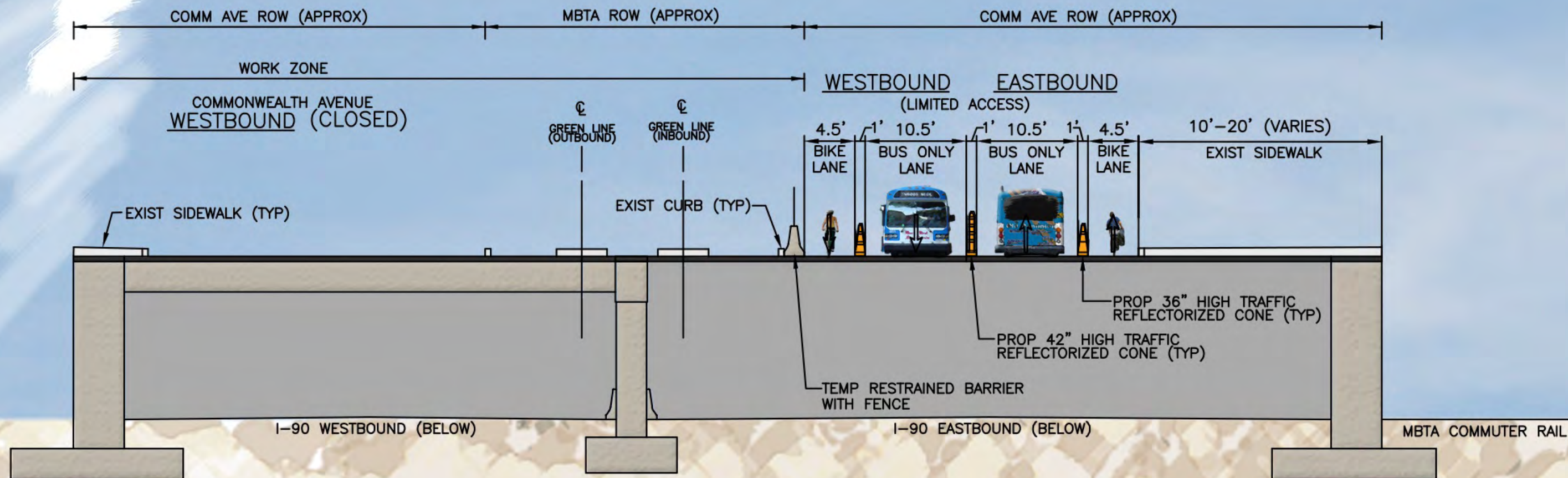
Rail

MBTA Commuter Rail & Amtrak

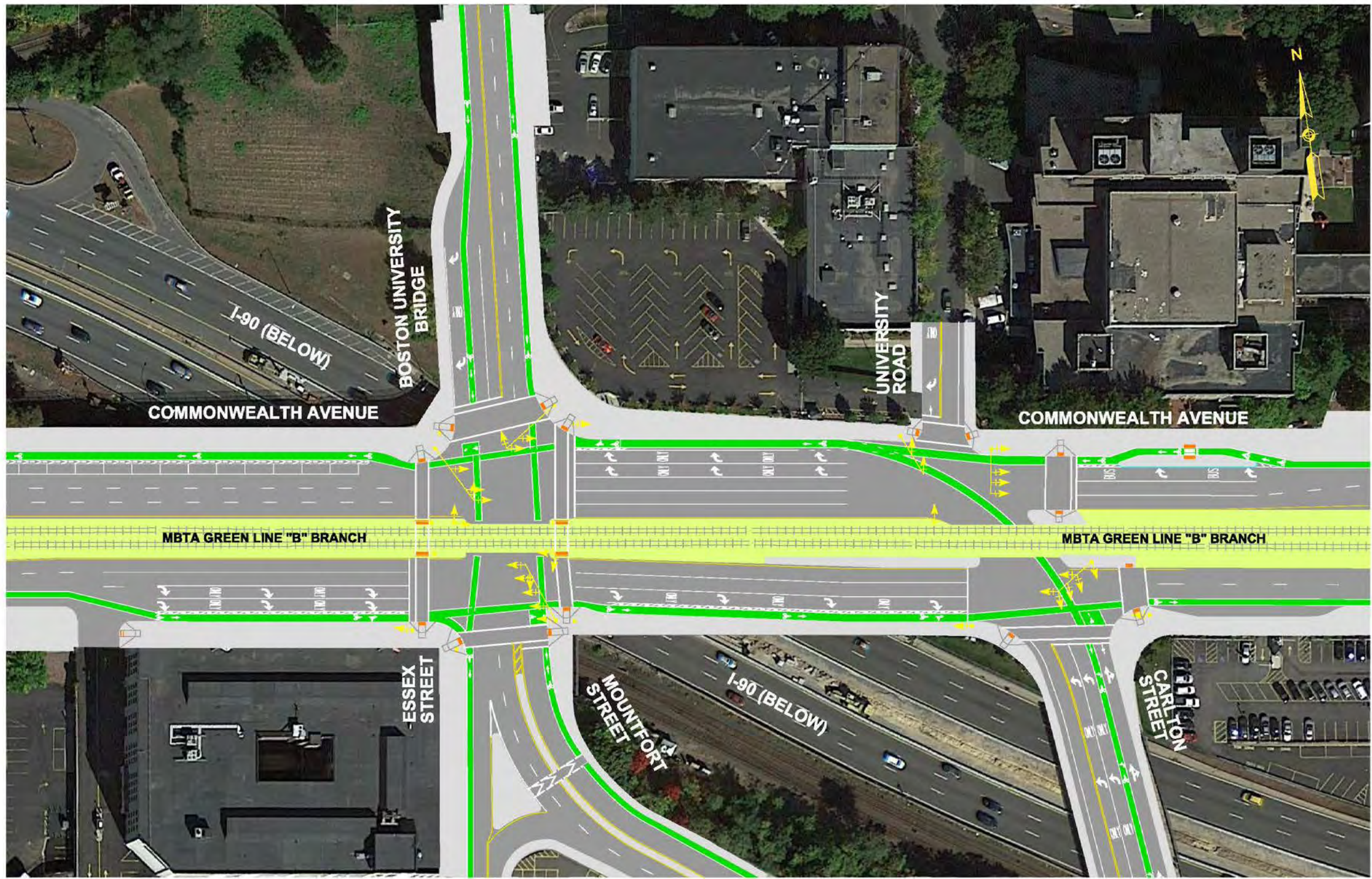
- Short-term impacts
- Weekend track outage and diversion
- Normal weekday operations

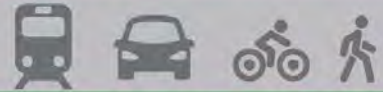


Stage 4: Comm Ave WB

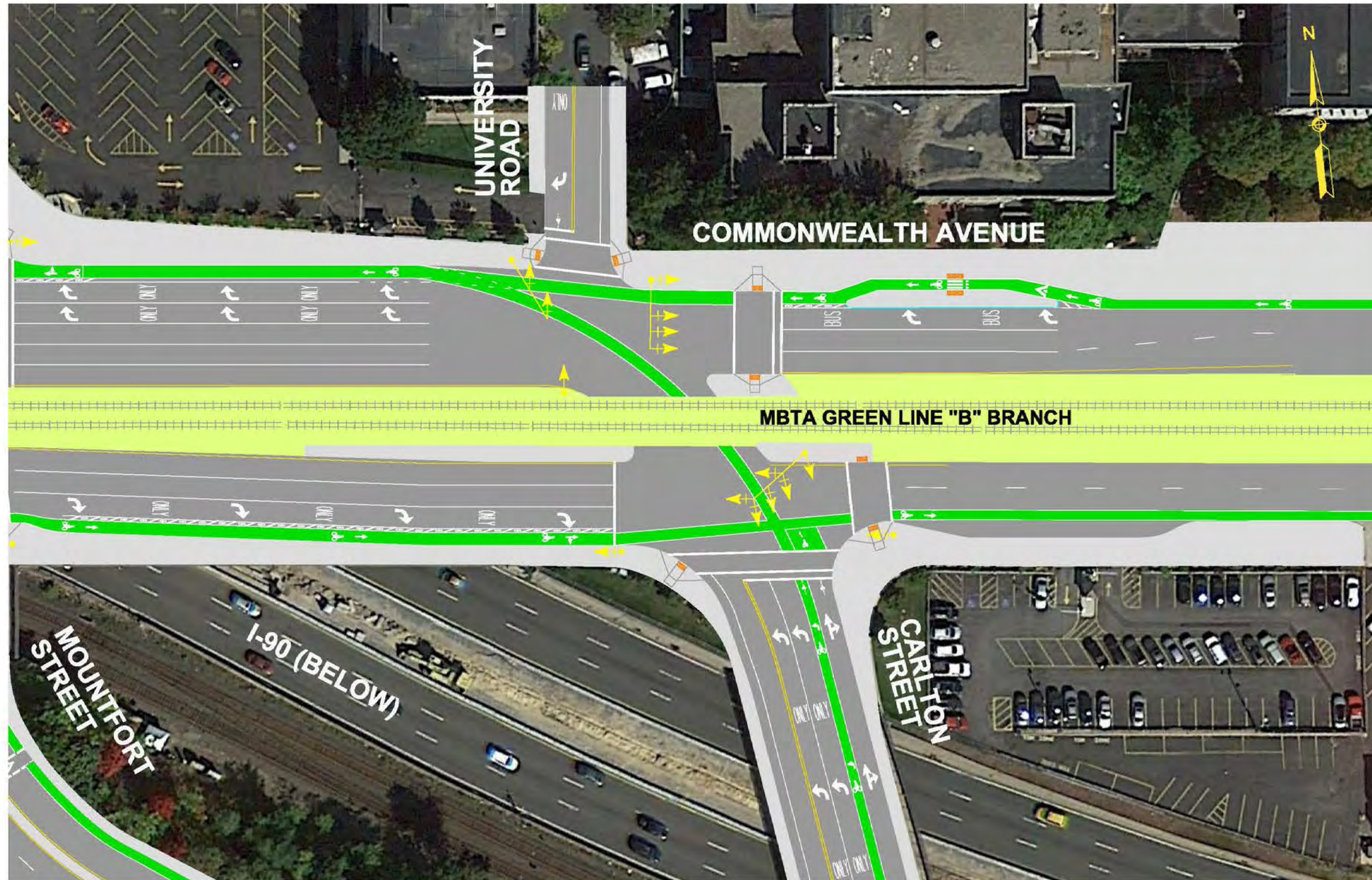


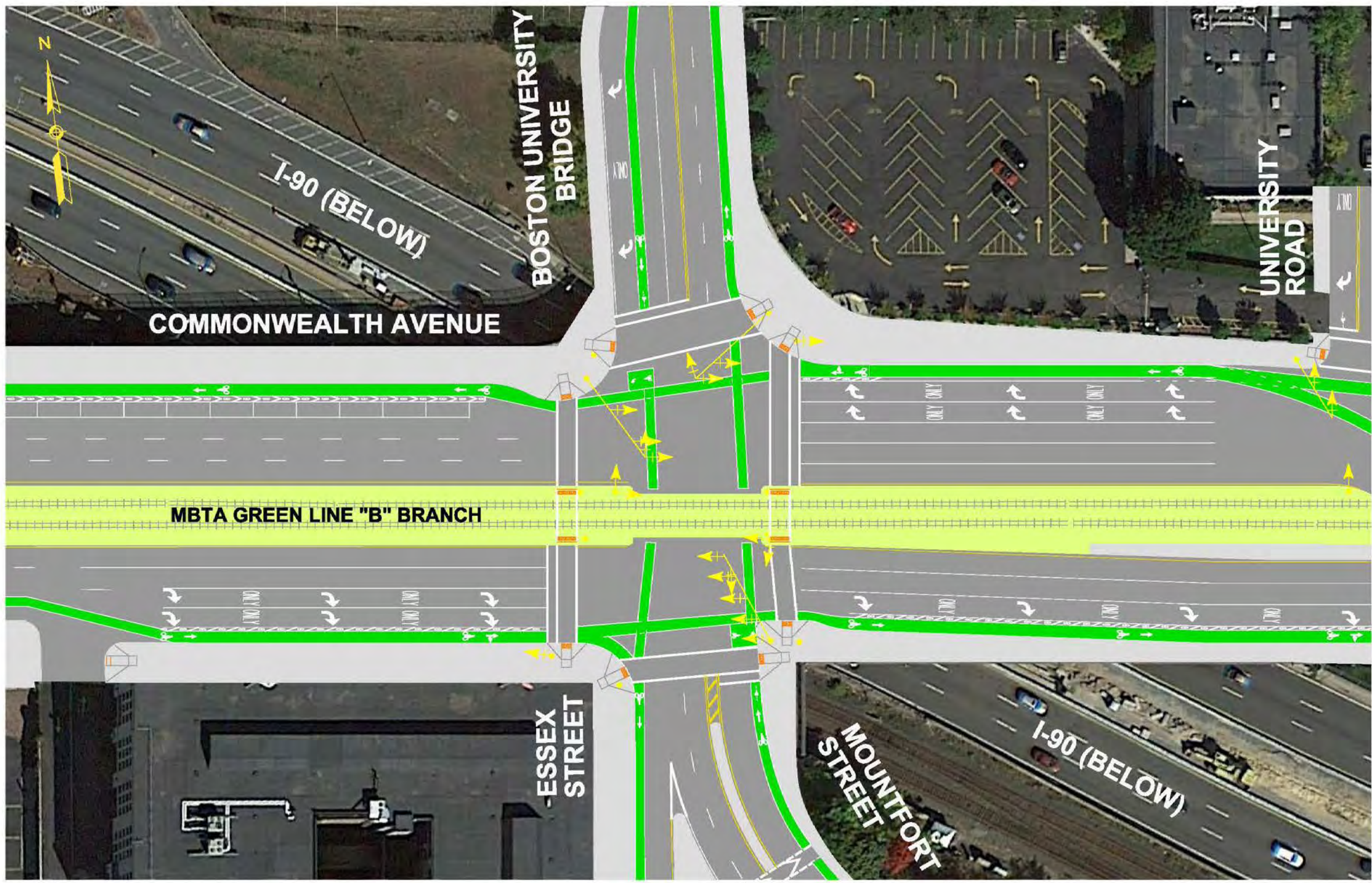
Commonwealth Avenue Westbound Closure

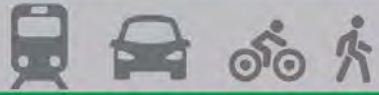




Finished Condition

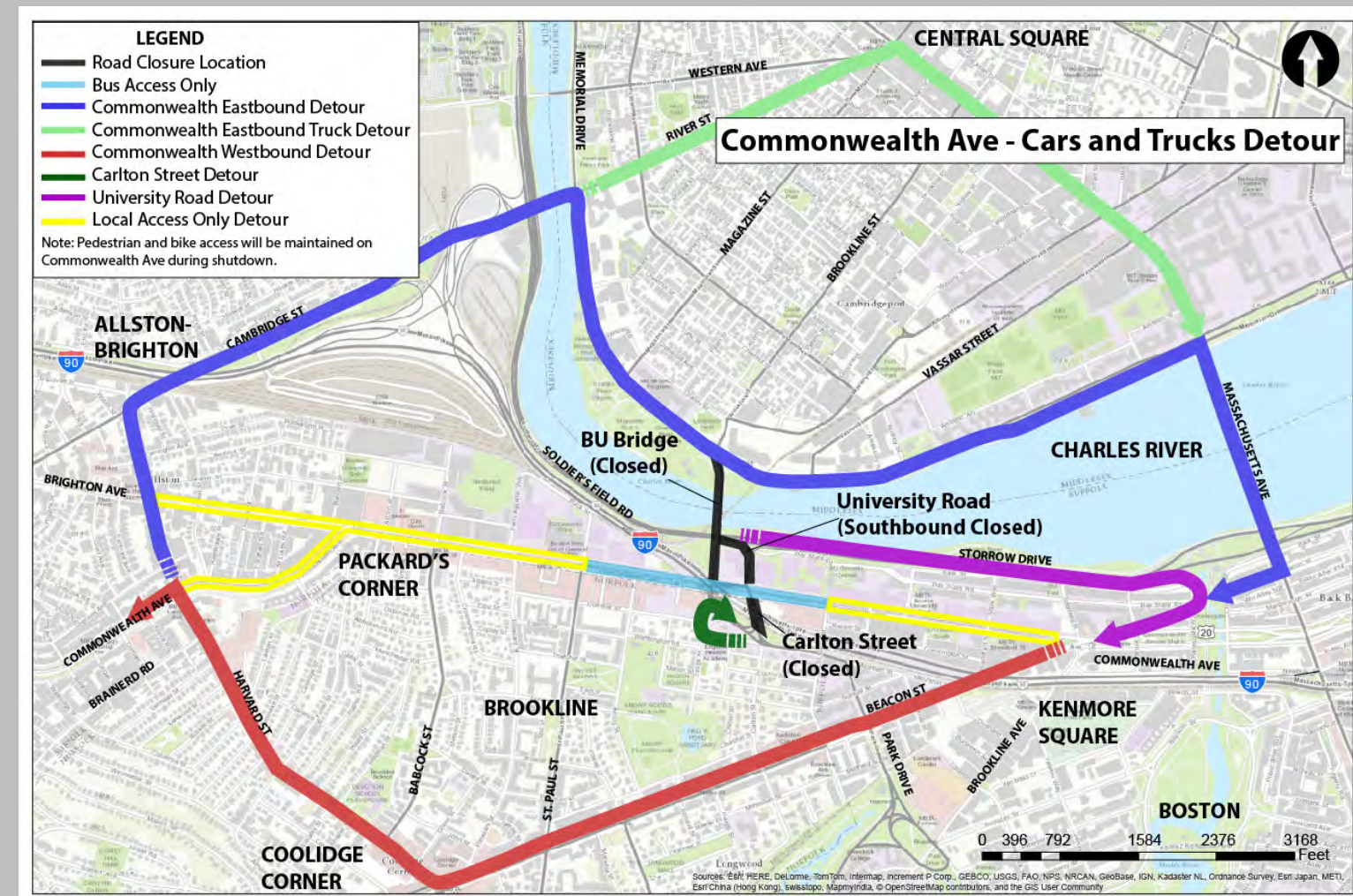






Outreach & Communication

- Project website
- Public meetings and briefings for stakeholders
- Additional briefings will be held as we near the closure date and major construction (30 days prior to major construction, 7 days prior to shutdowns)
- MassDOT social media
- Printed materials (brochures, flyers) available in multiple languages
- Detour maps available for download
- Email alerts
- Real Time Traffic Monitoring System active during both shutdowns



Stakeholder Coordination

- Transportation Partners (AAA, Truckers Association, Chambers of Commerce, Neighboring DOTs, I-495 Partnership)
- City of Boston
 - Mayor's Office
 - Neighborhood Services
 - Boston Transportation Department (including daily coordination meetings during shutdowns)
- City of Cambridge
- Town of Brookline
- Fire, Police, EMS
- Neighborhood Associations
- Boston University
- Boston Red Sox
- MASCO
- WalkBoston & MassBike
- and many more

Targeted Outreach



Elected and Municipal Officials I-90 Commuters

- Flyers and signs at toll booths
- Notices in EZ-Pass statements
- Variable Message Boards (VMB)

Commonwealth Avenue Users/Abutters

- Mailings and flyers for abutters and local businesses
- Meetings with neighborhood associations

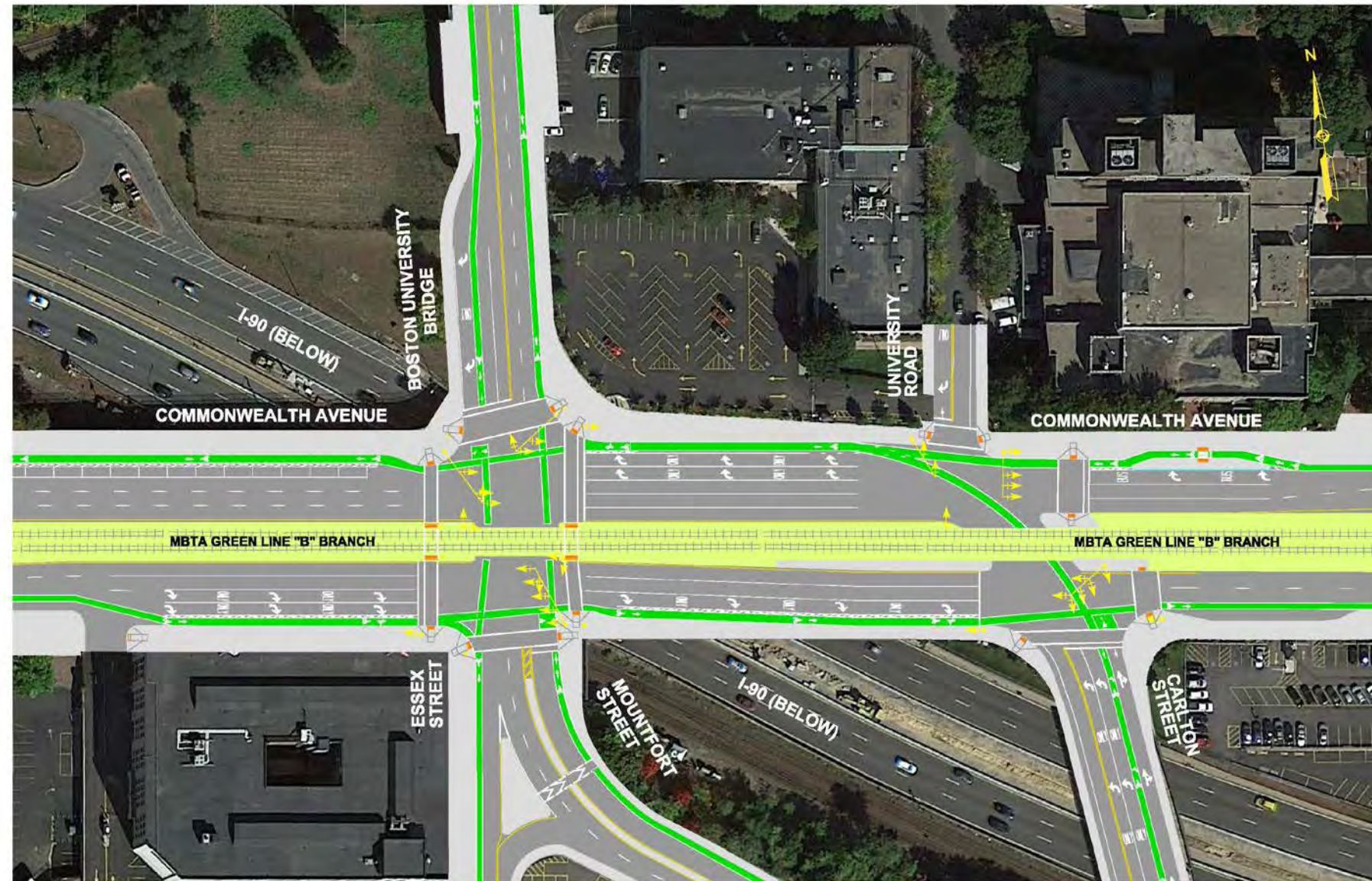
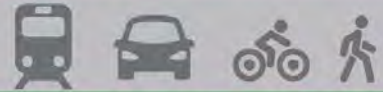
MBTA and Commuter Rail riders

- T-alerts, Signs, Seat Drops

Sign up for email alerts!

www.mass.gov/massdot/CommAveBridge

Questions? Email us at
CommAveBridge@dot.state.ma.us



Questions or Comments?